

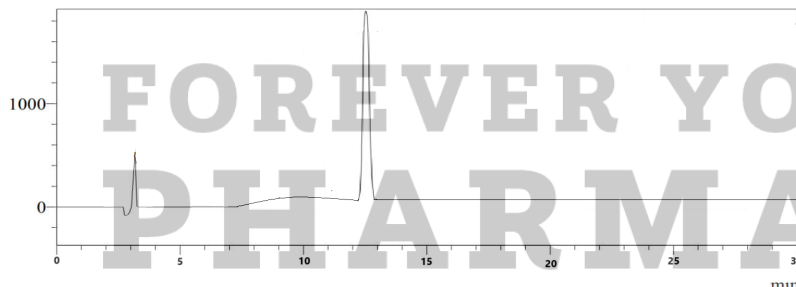


CERTIFICATE OF ANALYSIS

SAMPLE INFORMATION

Product Name	Tesofensine Raw Powder
Client Name/Lot No.	Biopep LLC / Lot# 25097
Sequence	C17H23Cl2NO
Dissolution condition	100% H2O
Length	15AA
Molecular Weight	328.28 g/mol

CHROMATOGRAM



Peak #	Ret. Time	Area %
1	8.560	0.110
2	9.101	0.303
3	13.324	99.513
4	13.789	0.074

TEST RESULTS

	Specifications	Results
Strength	20.00 mg	20.00 mg
Appearance	White crystallized powder	Conforms
Purity	≥98.0%	99.5%
pH value	6.0-8.0	7.0
Impurity	Single Impurity ≤1.0%	0.3%
	Total Impurity ≤2.0%	0.5%

TEST PARAMETERS

Pump A	0.1% trifluoroacetic in 100% water
Pump B	0.1% trifluoroacetic in 100% acetonitrile
Total Flow	1.0ml/min
Wavelength	214nm
Analytical Column Type	Agilent ZORBAX StableBond 5µm C18 (4.6*250mm*5 µm)
Dissolution Method	100% H2O
Injection Volume	30uL

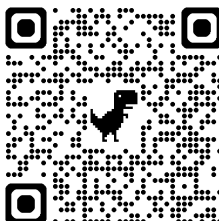
CONCLUSION

20.00mg of white crystallized powder was weighed and used for testing. The Lot# is 25097.

The sample was analyzed using Reverse Phase High Performance Liquid Chromatography (RP-HPLC) and determined to contain 99.5% tesofensine (20.00 mg), and the rest are impurities of minor significance.

CERTIFIED BY:

Dane Fredericksen
Analytical Chemist
04/10/2025



****Verify the validity of test results by contacting support@foreveryoungpharmacy.com****

Certificate of Analysis

Tesofensine

(5R)-5-(piperidine-1-carbonyl)pyrrolidin-2-one

Compound : **Tesofensine**

Client : **BioPep Research Peptides**

Lot number : **25097**

Analysis date : **2025-04-30**

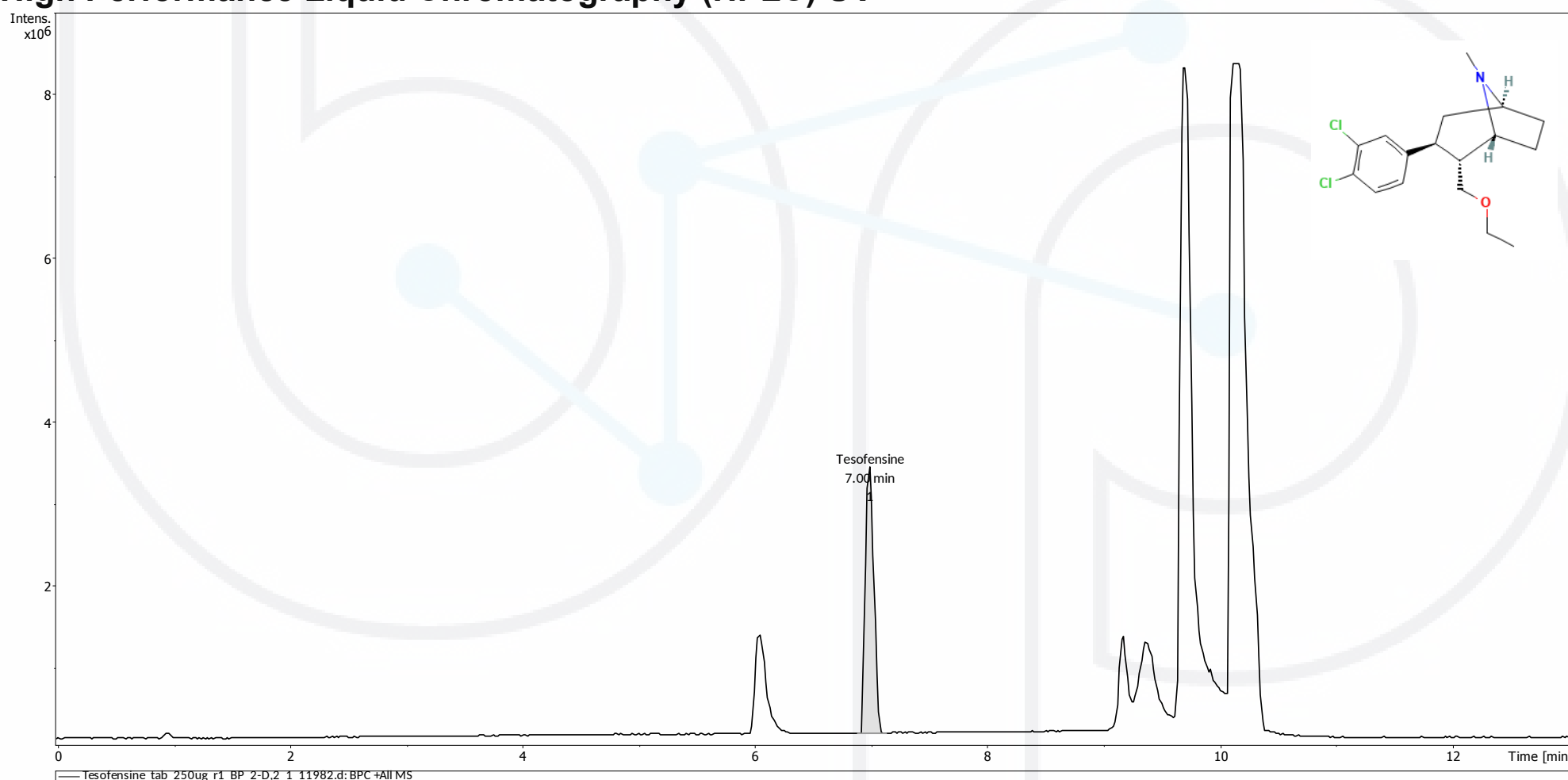
Quantity : **218.63** **mcg/tablet**

Method : **HPLC-UV-MS**

PubChem CID: 11370864

<https://pubchem.ncbi.nlm.nih.gov/compound/11370864>

High Performance Liquid Chromatography (HPLC) UV



Tesofensine detected at 7.00 minutes

Background peaks due to tablet filler

Quantification by HPLC-UV

Replicates	mcg/tablet
Tesofensine_tab_250ug_r1	237.38
Tesofensine_tab_250ug_r2	214.08
Tesofensine_tab_250ug_r3	204.44
Average mcg/tablet	218.63

Analysis Performed by
Ken Pendarvis, ChE
Analytical Chemist
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2025-05-20

Tesofensine

PubChem CID: 11370864

<https://pubchem.ncbi.nlm.nih.gov/compound/11370864>

Mass Spectrometry (MS) – Identity Test

Identity confirmed using HPLC-MS

Molecular weight calculated using monoisotopic m/z values from mass spectrum

Expected monoisotopic mass : 327.12 Da

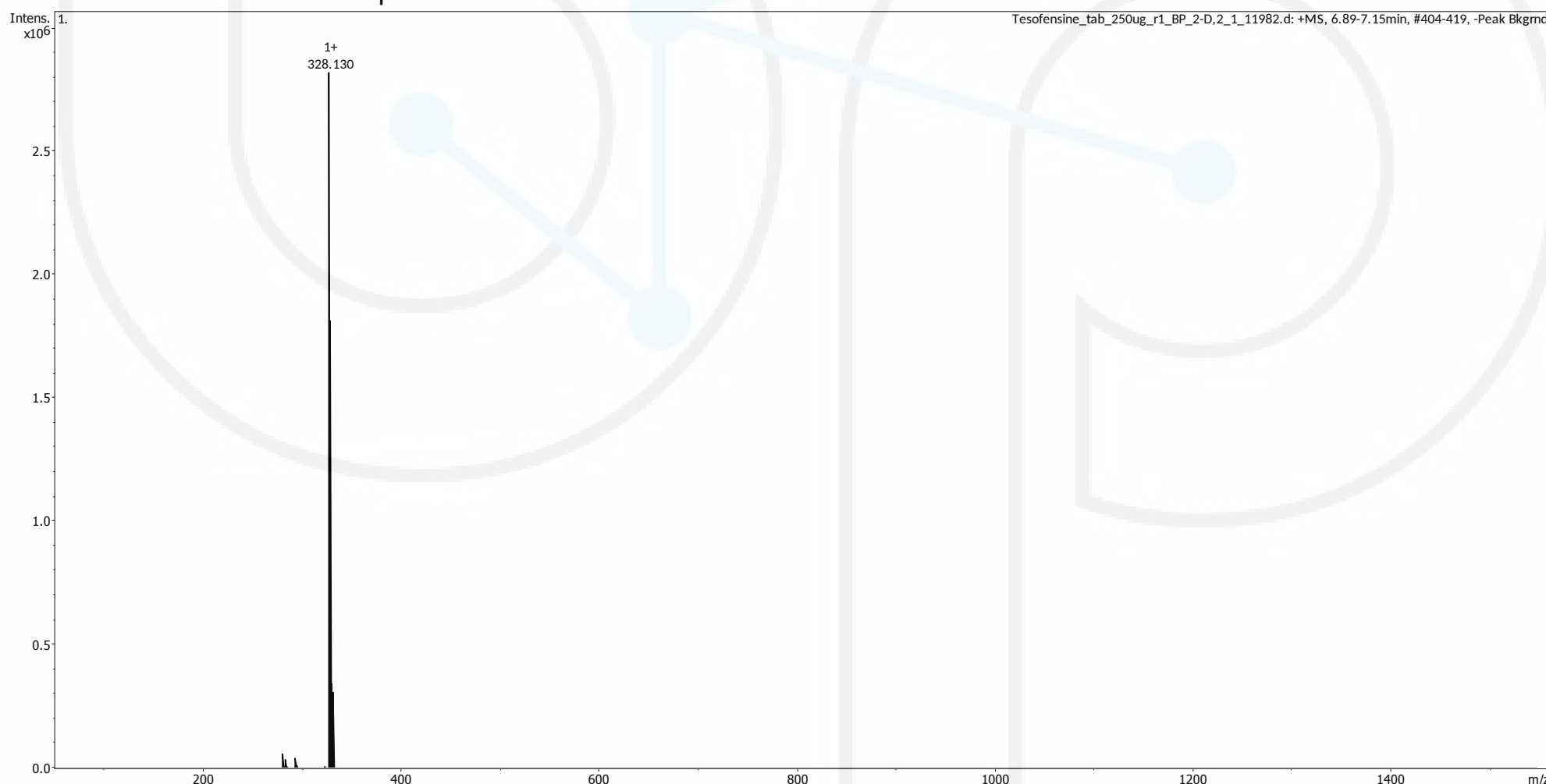
Measured monoisotopic mass : 327.13 Da

Molecular weight confirmed

Note : Monoisotopic m/z values are not easily seen in full spectrum view for larger molecules and peptides.

The dominant isotopic peak (base peak) shown in the spectrum below can be used to approximate the average molecular weight frequently reported by vendors and databases as a secondary means of confirmation.

Recorded MS spectrum



Analysis Performed by
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2025-05-20